

# Europass Curriculum Vitae



## Personal information

First name / Surname

**Ferruccio PITTALUGA**

Address(#1)

DIME – Dept. of Mechanical, Energy, Management and Transportation Engineering –  
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Address(#2)

DIME/SCL – Savona Combustion Laboratory – Savona Campus (Univ. of Genova)  
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Nationality

Italian

Date of birth

January 13th, 1945

Gender

male

## Occupational field

### Research and Teaching (academic level)

### Work experience

Dates

1970-1972

Occupation or position held

Procurement Engineer for nuclear power plants' steam cycle components

Main activities and responsibilities

Definition of purchase specifications for feedwater pumps, heaters and valves

Name and address of employer

Ansaldo Meccanico Nucleare Co., Genova

Type of business or sector

Fossil-fueled and nuclear large steam power stations

Dates

1973 – 1981

Occupation or position held

Assistant professor

Main activities and responsibilities

Teaching and research in the fields of Fluid Machinery

Name and address of employer

University of Genova – Faculty of Engineering – Inst. of Thermal Machinery

Type of business or sector

Turbomachinery fluid-dynamics – Steam power plants cycle-optimization

Dates

1981 – 1986

Occupation or position held

Associate professor of Turbomachinery Fluid-Dynamics

Main activities and responsibilities

Teaching and research in the fields of Fluid Machinery

Name and address of employer

University of Genova – Faculty of Engineering – Inst. of Thermal Machinery

Type of business or sector

Turbomachinery fluid-dynamics – Transonic flow experimentation

Dates

1986 – 1990

Occupation or position held

Full professor of Fluid Machinery

Main activities and responsibilities

Teaching and research in the fields of Thermal Machinery and Energy

Name and address of employer

Univ. of Udine – Faculty of Eng. – Inst. of Techn. Physics and Power Plants

Type of business or sector

Turbomachinery fluid-dynamics – Power plants

Dates

from 1990 to present day

Occupation or position held

Full professor of Fluid Machinery

Main activities and responsibilities

Dipartimento di Ingegneria Meccanica, Energetica, Gestionale, e dei Trasporti (DIME)

Name and address of employer

University of Genova – Dept. of Mech., Energy, Manag. & Transp. Engineering

Type of business or sector

Energy conversion – Combustion – Atmospheric emissions

## Education and training

Dates	1969
Title of qualification awarded	Graduation (5-year Laurea) in Mechanical Engineering
Principal subjects/occupational skills	Energy Engineering and Thermal Machines
Name and type of organisation providing education and training	University of Genova, School of Engineering, Italy
Dates	1973-1974
Title of qualification awarded	Master of Science in Mechanical Engineering
Principal subjects/occupational skills	Turbomachinery and Propulsion
Name and type of organisation providing education and training	Lehigh University – Pennsylvania (USA) - Mechanical Engineering Department

**Personal skills and competences**

In 1998, thanks to substantial national and European fundings, the writer has established, within Savona Campus, the Savona "SCL" Combustion Laboratory, now DIME/SCL, of which, since then, he has been the head. Its staff is about 10 units of personnel (permanent + temporary). The infrastructural, instrumental and numerical resources of SCL in the fields of fossil-fueled, as well as renewable, power generation are remarkable ([www.en3.unige.it/savona-combustion-lab/](http://www.en3.unige.it/savona-combustion-lab/)). In the last 12 years, he has been responsible of research teams involved in 8 national and 7 European programmes, all addressed to combustion processes' experimental investigation and numerical prediction. The respective research funds received are in the order of 2.5 M-euro.

From a technology transfer perspective, in 2012 he founded, together with 3 former students and PhD's, the academic spin-off 'Tecnoforest Ltd.' of which he is president. Tecnoforest, specialized in rapid-growth forestation services ([www.tecnoforest.net](http://www.tecnoforest.net)), is technical representative of APL biomass gasifiers (<http://www.allpowerlabs.com/>). Recently Tecnoforest is also co-producer and seller of Biosyn, a registered, innovative, small-scale woodchip gasifier ([www.biosyn.it](http://www.biosyn.it)).

Mother tongue(s) **Italian**

Other language(s) **English, French**

Self-assessment

*European level (\*)*

**Language**

**Language**

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B2	B2	B2	B2	A2

**Additional information**

Author of about 130 scientific papers in the fields of Turbomachinery fluid-dynamics, Transonic flows Fossil-fueled combustion, Combustion instabilities, Biomass Gasification, Control of atmospheric emissions from combustion processes.

Associate Fellow AIAA – Senior member ASME – Member ERCOFTAC